Page 1

Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 6/30/2011

6/10/2011

Start Qty: 1.00 Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan: W

Date: (1-06-(0) Tooling:

Date: \_\_\_\_\_

SPC (Y/N):

Date:

Date:

Run

Start



Stop

Sequence ID/ Work Center ID

Operation Description

QC:

Set Up/ **Run Hours**  Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject

Insp. Number Stamp

Draw Nbr

**Revision Nbr** 

D3391

Rev H

Skidtubes

Memo

0.00

0.00

Skidtubes Skidtubes

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391

11-6-22

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		WC	ORK ORDER CHANGE	ES					ja .
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#### Work Order ID 70657

Page 2

Friday, June 10, 2011 4:07:26 PM

Item ID: **Revision ID:**  D3391-023

Mid Tube Assembly

Accept



Setup Start



Stop

Item Name: **Start Date:** 

6/10/2011

Required Date: 6/30/2011

Req'd Qty: 1.00

Start Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan: \_\_\_\_\_ Date:

Date: \_\_\_\_\_

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start



Stop

Sequence ID/ Work Center ID

Operation Description

QC:

Set Up/ **Run Hours**  Tool ID

Tool # Plan

11-6-22

Code

Accept Qty

Reject Qty

Reject

Insp. Number Stamp

11-Open .375" holes to .438" \*\*\*do not open fwd saddle holes\*\*\*

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

11-6-23



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Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Required Date: 6/30/2011

Item Name:

Mid Tube Assembly

**Start Date:** 

6/10/2011

Start Qty: 1.00

Reg'd Oty: 1.00



Date: \_\_\_\_\_

**Cust Item ID:** 

**Customer:** 

Reference:

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Approv	als:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Set Up/

Date:

Date:

Run

Start



Stop

Sequence ID/. Work Center ID

Quality Control

Operation **Description** 

QC5- Inspect part completeness to step on W/O

**Run Hours** 

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Qty Number

Insp. Stamp

Memo

0.00

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

130

Quality Control

QC3- Inspect Part Finish

Memo

Memo

0.00 0.00

11-6-23

W/O:			V	ORK ORDER CHANGE	S			7.4	
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Page 4

Friday, June 10, 2011 4:07:26 PM

Required Date: 6/30/2011

Item ID: **Revision ID:**  D3391-023

Accept



Setup Start



Stop

Item Name: Start Date:

6/10/2011

Mid Tube Assembly

Start Otv: 1.00 Reg'd Otv: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

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Process Plan: Date: Tooling:

Date:

Date:

Run Start

Stop



QC:

Date:

SPC (Y/N):

0.00

Reject Qty

Reject Number Stamp

Insp.

Sequence ID/ Work Center ID

140

Skidtubes

Skidtubes

Operation **Description**  Set Up/ **Run Hours**  Tool ID

Tool#

Plan Code Accept Qty

Skidtubes

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & Q\$I 015.

Adhere for 12 hours)

150

QC5- Inspect part completeness to step on W/O

0.00

Quality Control

Memo

Memo

0.00

160

Skidtubes

Skidtubes

Skidtubes

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & OSI 004

2-grind weld flush

W/O:			W	ORK ORDER CHANGE	S					•
DATE	STEP	PROCI	EDURE CHA	NGE	1	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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#### Work Order ID 70657

Friday, June 10, 2011 4:07:26 PM



Page 5

Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

Required Date: 6/30/2011

6/10/2011

QC:

Start Qty: 1.00

**Req'd Qty:** 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan: Date: Tooling:

Date: \_\_\_\_\_

SPC (Y/N):

Date:

Tool ID

Date:

Tool # Plan

Code

Start

Sequence ID/

**Work Center ID** 

170

QC

Quality Control

Operation **Description** 

QC10- Inspect visual per QSI004- ground welds

Memo

Set Up/ **Run Hours** 

0.00

180

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0.00

0.00

AND REALODINE AS PER PAR09-043

Run

Accept

Qty

Reject

Qty

Stop



Reject

Insp. Number

Stamp

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W/O:			W	ORK ORDER CHANGE	S			•
DATE	STEP	PROC	PROCEDURE CHANGE					Approval QC Inspector
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#### Work Order ID 70657

Friday, June 10, 2011 4:07:26 PM



Page 6

Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

Required Date: 6/30/2011

6/10/2011

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

START TIME: OVEN TEMPERATURE:

FINISH TIME:

Date:

Tooling:

Set Up/

0.00

**Run Hours** 

Date:

Run

Start

Stop



QC:

Operation

Description

Date:\_\_\_\_\_

SPC (Y/N):

Date:

Accept

Reject

Reject

Insp.

Sequence ID/

**Work Center ID** 

190

Powdercoat

Powder Coating

200

QC

QC3- Inspect Part Finish

0.00

Memo

0.00

Tool # Plan Code

Qty

Qty

Number

Stamp

Huloal25

Quality Control

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W/O:			W	ORK ORDER CHANG	ES	<del></del>			
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:		\	WORK ORD	ER NON-CONFORMA	NCE (NC	R)			
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Page 7

Item ID: **Revision ID:** 

D3391-023

Accept

Setup Start

Stop



**Cust Item ID:** 

**Customer:** 

Tool ID

Item Name:

Mid Tube Assembly **Start Date:** 

Required Date: 6/30/2011

6/10/2011

Start Qty: 1.00

Req'd Qty: 1.00

Reference:

**Approvals:** 

Process Plan: Date: Tooling:

Memo

Date: \_\_\_\_\_

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Run

Reject

Qty

Start



Stop

Sequence ID/ **Work Center ID** 

210

Skidtubes

Skidtubes

Operation Description

OC:

Skidtubes

Set Up/ **Run Hours** 

0.00

0.00

insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3-ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

\_\_\_ 7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

220

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

8 wolo6/79

Accept

Qty

Reject

Number

1 6 Id ido 6/28

Stamp

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W/O:		WORK ORDER CH	WORK ORDER CHANGES					
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Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	-	Disposition:	QA: N/C Closed:	Date:

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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date							
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#### Work Order ID 70657 Friday, June 10, 2011 4:07:26 PM





Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop

**Revision ID:** 

Item Name:

Mid Tube Assembly

Start Date:

6/10/2011

Start Otv: 1.00

Req'd Otv: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Process Plan:

Date:

Tooling:

Date:

Start

Run



**Required Date: 6/30/2011** 

QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID

230

HandFinish

Hand Finishing

Operation Description

HandFinishing

/Install Inserts as per Dwg

Set Up/ **Run Hours** 0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

1 14 4/06/25

240

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Identify as per dwg & Stock Location: WO

Memo

250

Packaging

Memo

0.00 D412.742-043/B70643

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0.00

Packaging

W/O:			WO	RK ORDER CHANGE	S		_		-
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#### Work Order ID 70657 Friday, June 10, 2011 4:07:26 PM

Page 9

Item ID:

D3391-023

Accept



Setup Start



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

6/10/2011

Start Qty: 1.00 Req'd Qty: 1.00

Operation

Description

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop



Required Date: 6/30/2011

QC:

Date:\_\_\_\_\_

**SPC (Y/N):** 

Set Up/

**Run Hours** 

Date:

Stop

Sequence ID/

**Work Center ID** 

260

QC

QC21- Final Inspection - Work Order Release

0.00

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

Quality Control

Memo

0.00

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#### . Picklist Print

Friday, June 10, 2011 4:07:20 PM

Work Order ID: 70657

D3391-023 Parent Item:

Parent Item Name: Mid Tube Assembly



Start Date: 6/10/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\Box$ IPP C 07.03.20 rev F dwg IPP D 07.03.28 re-format

IPP E 07.10.31 ecn 1053P EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

KJ/EC□

EC

EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
02500-1-100 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	8/ 1/888/ 1/8// 8/8// 8/8// 188/	Manufactured	No			100	Each	87.0000	1	1			Oh.
				Location		Loc		Loc Code					11/06/7
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3391-021		Manufactured	No	/<	37064	100	Each	0.0000			D	PM	-6-2
3389-1 		Manufactured	No		4 <del>736</del>	140	Each	4.0000	1			<b>B</b>	11/06/2
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Friday, June 10, 2011 4:07:21 PM

Work Order ID: 70657 Parent Item: D3391-023 Parent Item Name: Mid Tube Assembly Required Date: 6/30/2011 Start Date: 6/10/2011 Start Qty: 1.00 Required Qty: 1.00 D3681-1 Manufactured No 160 Each 44.0000 5 Spacer Location Loc Qty Loc Code LG 44 68958 2 69516 10 69893 32 D3591-1 Manufactured No 210 Each 35.0000 11/00/28 Bushing Location Loc Qty Loc Code ST068 35 57350 2 66147 33 ALS4-1032-130 230 Purchased No Each 1,634.000 1106/28 Insert Location Loc Qty Loc Code ST281 8 117331 8 ST282

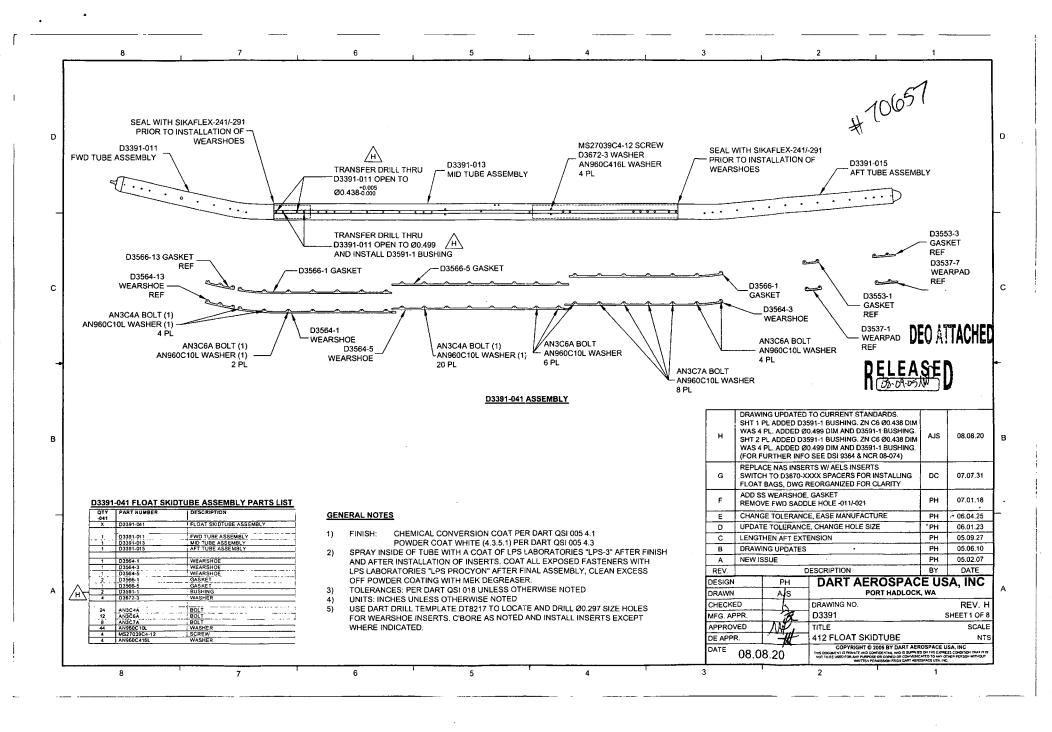
117717

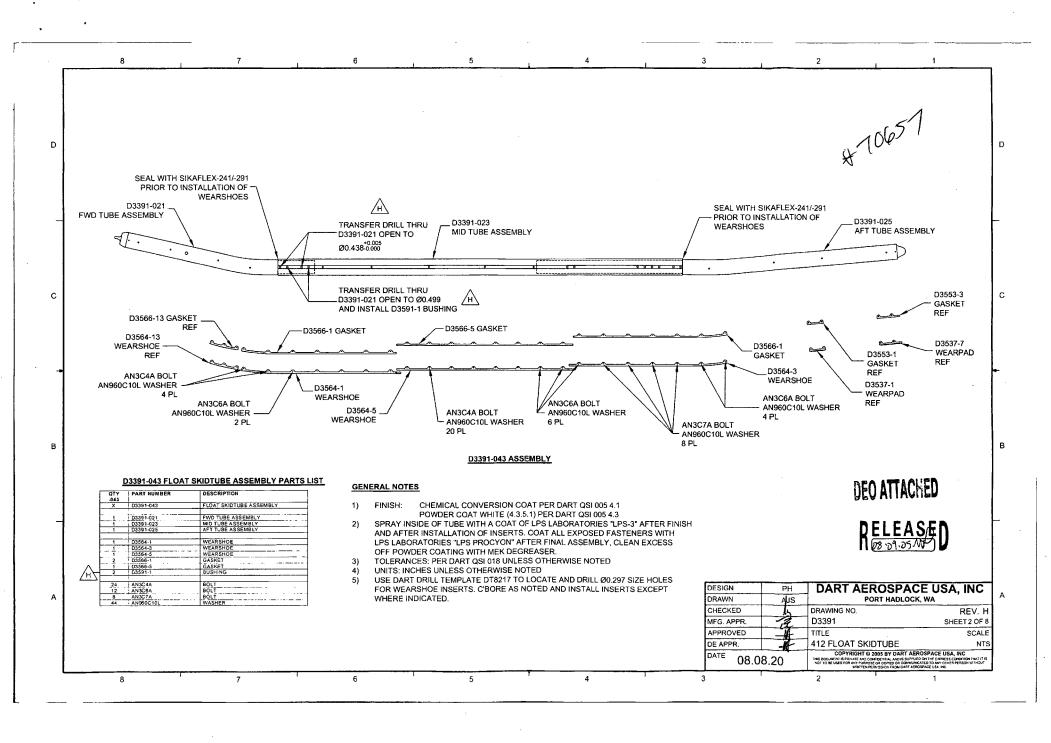
1626

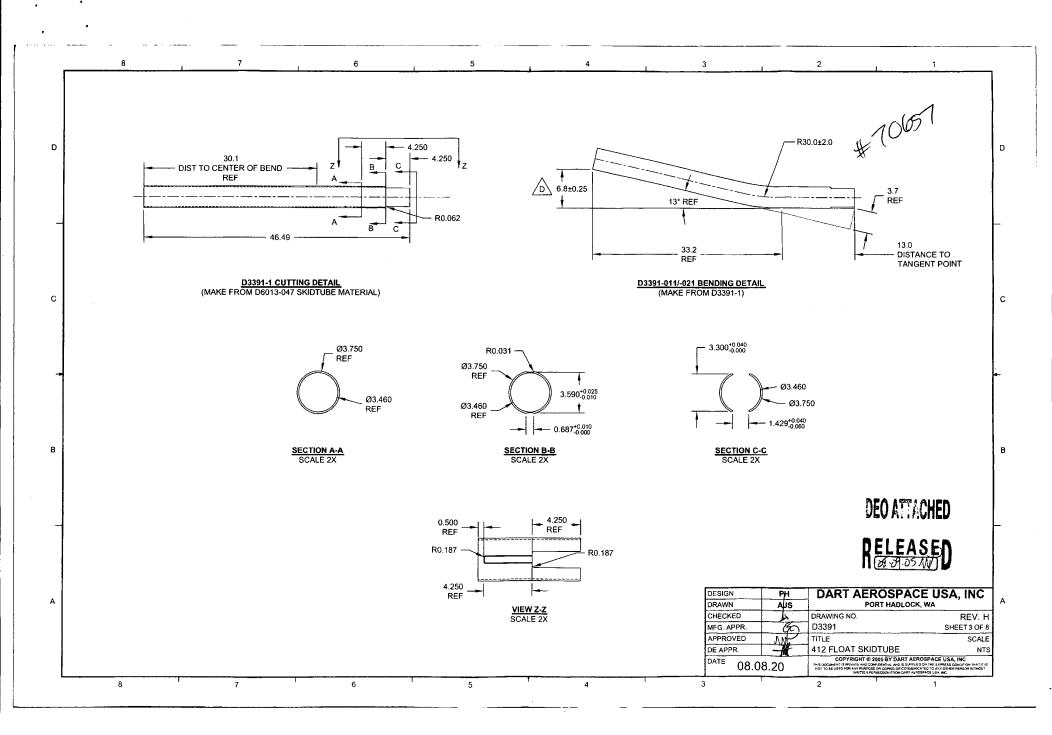
1626

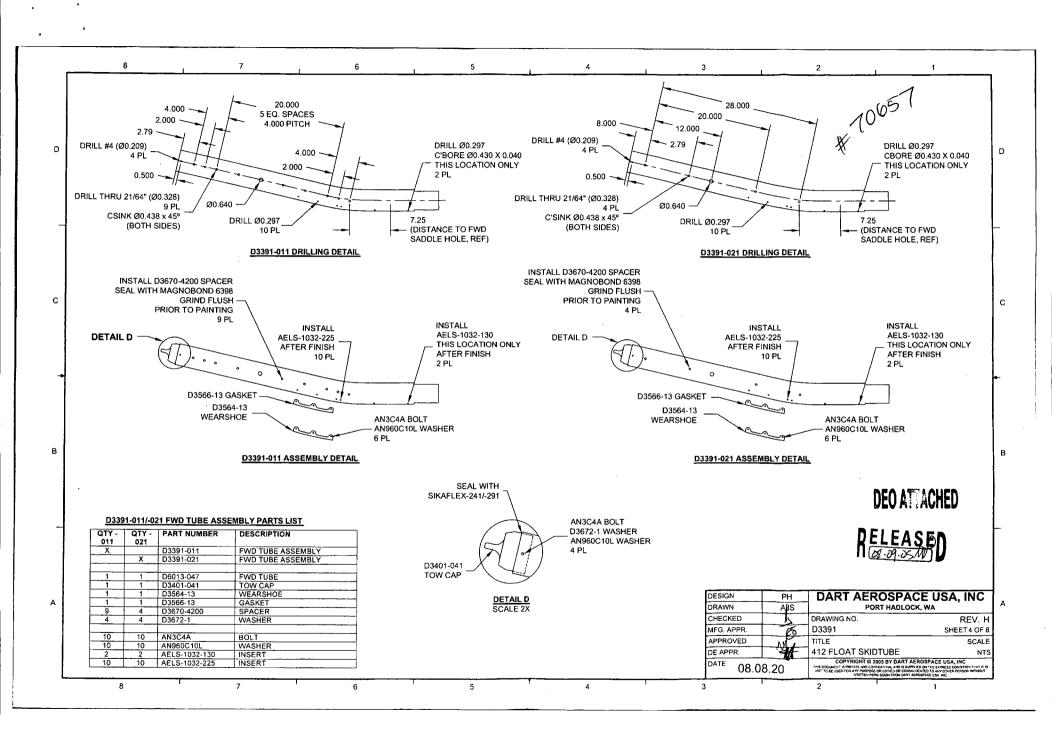
X20

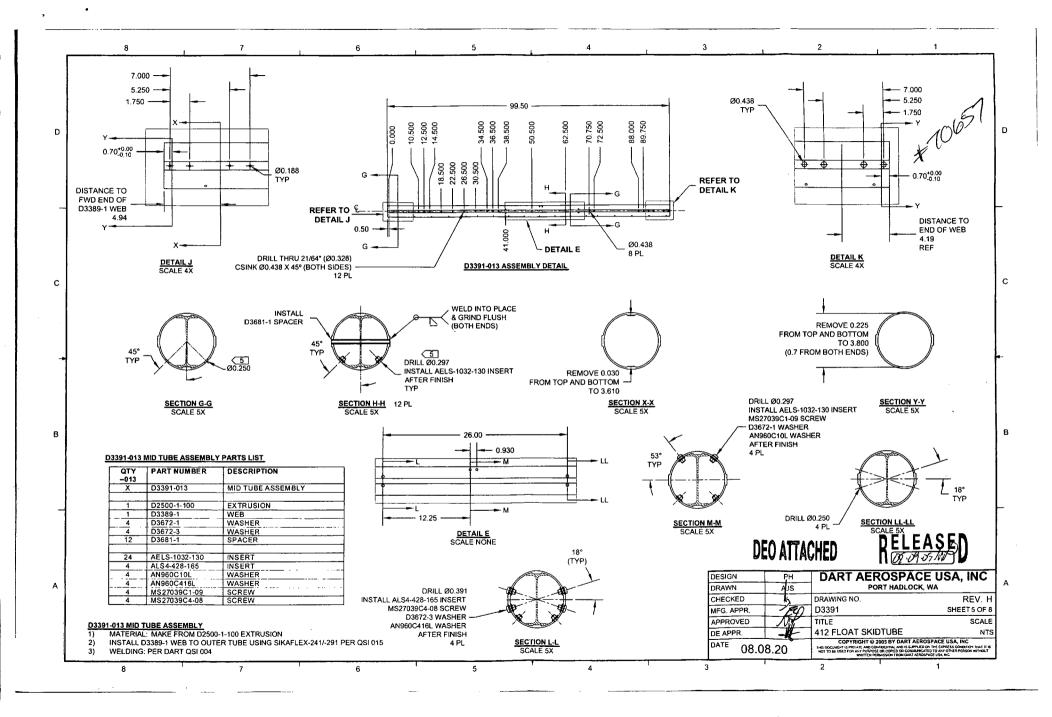
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W/O:			WORK ORDER CHANGES										
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R		esolution:	Disposit	ion:	QA: N/C	Close	ed:		Date: _				
NCR:			WORK OR	DER NON-CONFORM	ANCE (N	CR)							
DATE	CTED	Description of NC	Corrective Action Section B			V		ition	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	on Sign & Date		Section C		Chief Eng	QC Inspector			
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						1							

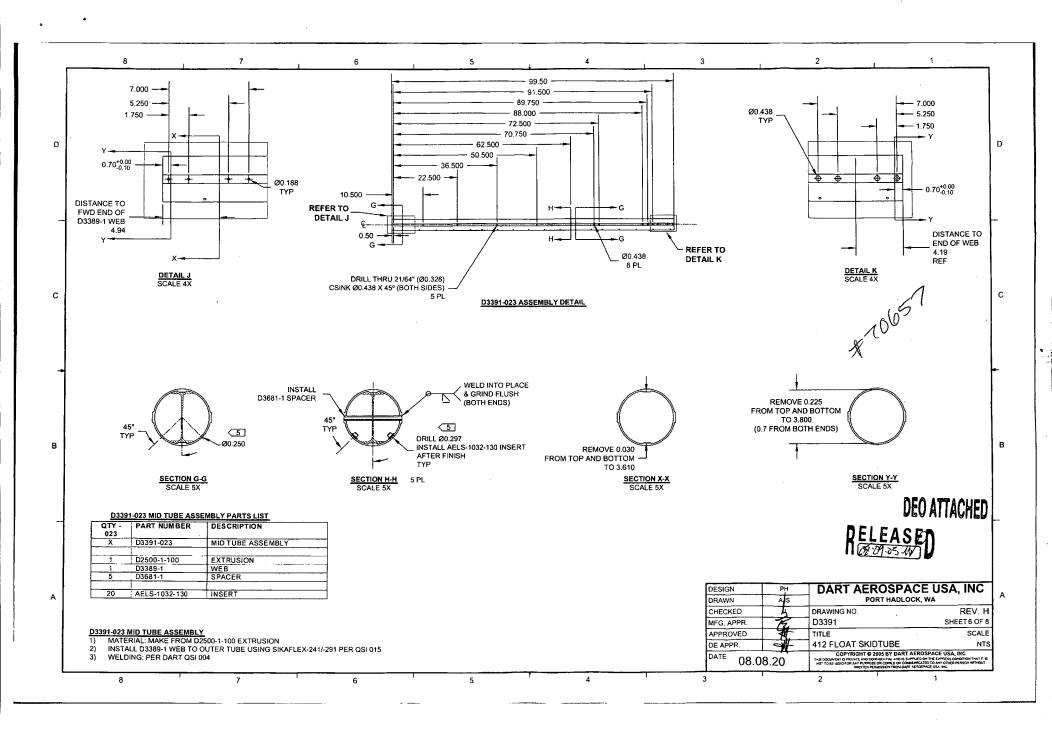


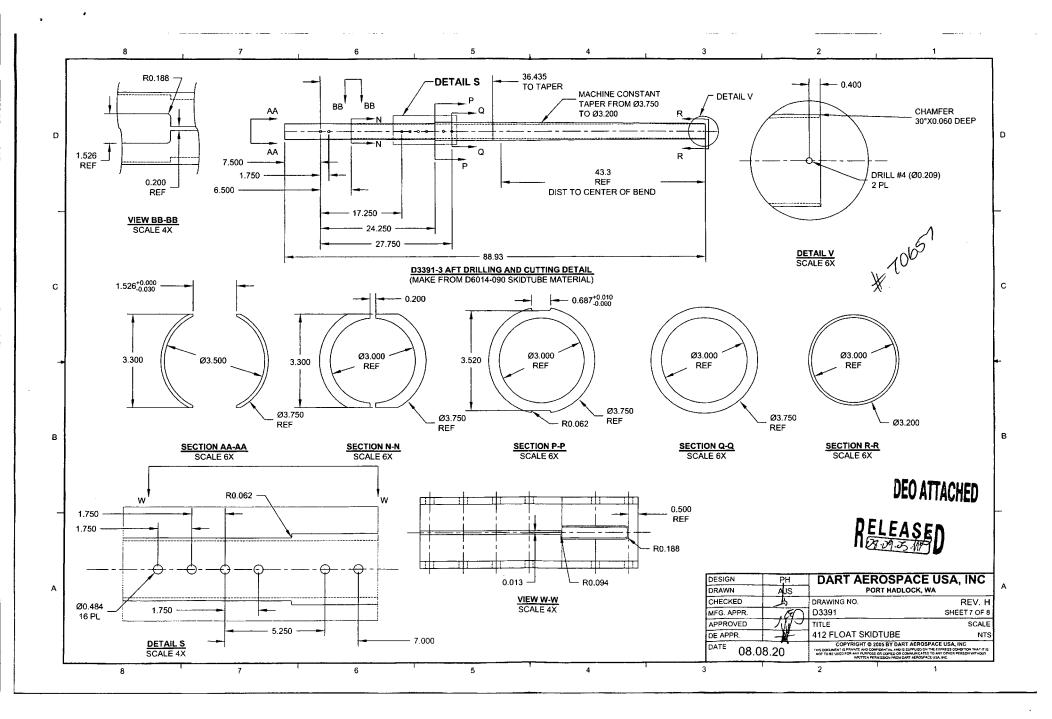


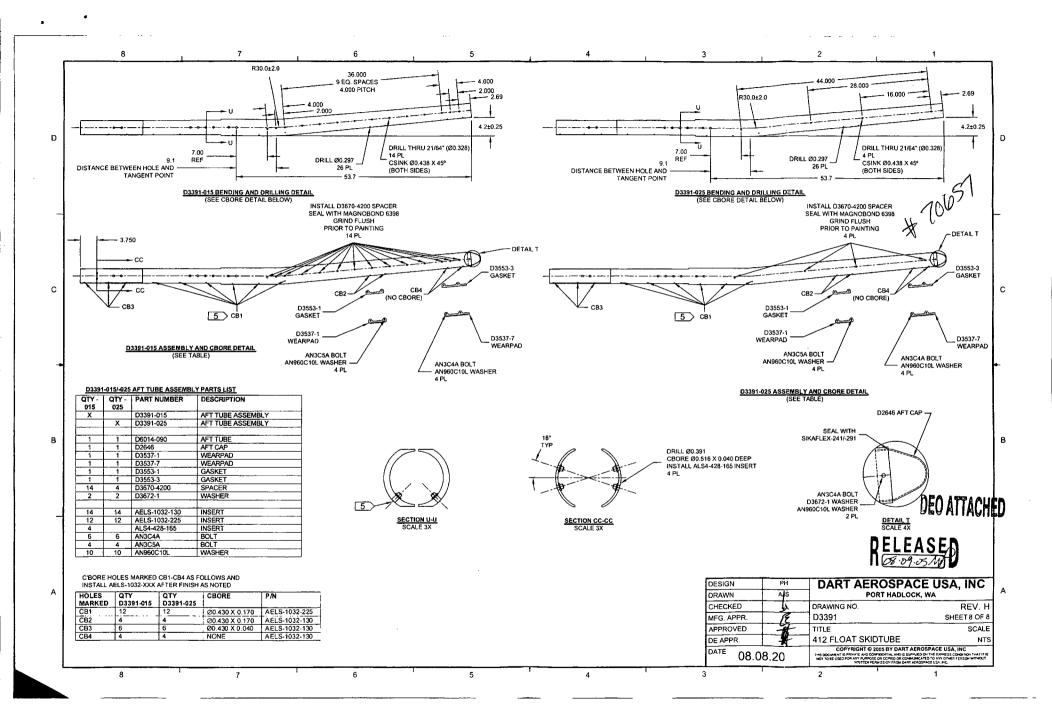












DRAWING	NO. TITLE		REV. H	DART AEROSPACE US	A, INC D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOA	T SKIDTUBE	,	ENGINEERING ORD	D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	(P	CHECKED	l,	MFG. APPR.	APPROVED NA	DE APPR.	
DATE	09.09.23	DATE	04.04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	•

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 0 2

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NO. 256

# AWS D17.1.2001 QUALIFICATION TEST RECORD

2 1 211 4
Name: Danlay [//wol
Job number: 0370180
Part number: <u>1339</u> - 023
Description: Mid Tube
Welding Process: Tig[ Mig[ ]
Base materiel: (climinum
Current: ACN DC[]

## TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[4]	fail[ ] fail[ ]	
<u>UNACCEPTABLE</u>			
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[Y] pass[Y] pass[Y] pass[Y] pass[Y]	fail[] fail[] fail[]	
Qualifier fat freesome Welder Barclay Child	_Date of Te _ Date of Te	est Coupon_ est Coupon_	11.06.20 11.06.20

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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		WO	RK ORDER CH	ANGES					
STEP	PRO	PROCEDURE CHANGE						Approval Chief Eng / Prod Mgr	Approval QC Inspector
		n na Nasa	٠.						
	PAR #:	Fault Categ	ory:	NC	R: Yes	No DQ	<b>4</b> :	_ Date: _	
Re	esolution:	Disposition	•	QA	: N/C Cld	sed:		Date: _	
	. 1	WORK ORDE	R NON-CONFO	RMANCE	(NCR	)			
CTED	Description of NC				Ver			Approval	Approval
JILI	Section A	Initial Chief Eng	Action Descrip Chief Eng	tion	Sign & Date	Secti	on C	Chief Eng	QC Inspector
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